		Project/ परियोजना :				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL क्वालिटी प्लान तथा सब –वेंडर के अनुमोदन सहित मदों की सूची			DOC. NO./ दस्तावेज सं.:
		Package/ पैकेज: EPC Package							**REVISION NO : 4**
		Supplier/ आपूर्तिकर्ता:							DATE/ तिथि : 31.03.2024
		Contract No./ अनुबंध सं.:							SUB-SYSTEM उप-प्रणाली: QA-SG(MECH)
S. N. क्र.सं.	Item / मद	**QP/ Insp.** Cat. क्यूपी/ निरी. श्रेणी.	QP No. / क्यूपी. सं.	**QP Sub. Schedule** क्यूपी उप.अनुसूचि	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	**Place/ स्थान**	**Sub-suppliers approval status /** category उप आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी	**Sub-supplier Details submission** schedule/ उप आपूर्तिकर्ता के विवरण प्रस्तुतीकरण की सूची	Remarks/ टिप्पणी
1	**RAPH**	**I**			REFER SUB QR ITEM LIST Refer Note 1				STATIC COMPONENTS, ROTATING COMPONENTS, GUIDE/SUPPORT BEARINGS-NTPC APPROVED VENDORS
2	**FD, PA & ID FANS**	**I**			REFER SUB QR ITEM LIST Refer Note 1				STATIC, ROTATING COMPONENTS AND BLADES - NTPC APPROVED VENDORS
3	**COAL MILL**	**I**			REFER SUB QR ITEM LIST Refer Note 1				MILL COUPLING, PGB, GRINDING ROLLS, BULL RING SEGMENTS, MILL HOUSING, SEPARATOR AND OTHER MAIN COMPONENTS - FROM NTPC APPROVED SOURCES
4	**ESP**	**I**			REFER SUB QR ITEM LIST Refer Note 1				COLLECTING ELECTRODE, EMITTING ELECTRODE - NTPC APPROVED VENDORS
5	**GRAVIMETRIC COAL FEEDERS**	**I**			REFER SUB QR ITEM LIST Refer Note 1				
6	**RECIRCULATION PUMP**	**I**			REFER SUB QR ITEM LIST Refer Note 1				
7	**AUXILIARY BOILER**	**I**			REFER SUB QR ITEM LIST Refer Note 1				
8	**ESP SUPPORT STRUCTURE (AUTO WELDED COLUMNS & ROOF BEAMS)**	**I**			NTPC APPROVED SOURCES		A		REFER BOILER STRUCTURE LIST
		$			VALLOUREC & MANNESMANN TUBES	FRANCE, GERMANY	A		CS & AS T-11, T-22, T-23, T-91, T-92
		$			TENNARIS GLOBAL SERVICES SA, URUGUAY	DALMINE, ITALY	A		CS & AS T-11, T-22
		$			TENNARIS GLOBAL SERVICES SA, URUGUAY	SILCO, ROMANIA	A		CS & AS T-11, T-22, T-23, T-91
		$			TENNARIS GLOBAL SERVICES SA,URUGUAY	NKK TUBES, JAPAN	A		CS & AS T-11, T-22, T-91
		$			MAHARASHTRA SEAMLESS LTD	RAIGAD	A		CS HOT FINISHED OD:21.0 MM TO 168.3 MM WT: 2.0 MM TO 20.0 MM COLD FINISHED OD:19.0 MM TO 88.9 MM WT: 1.0 MM TO 12.0 MM
		$			IBF S.P.A	ITALY	A		CS & AS T-11, T-12, T-22, T-91
		$			JFE STEEL CORPORATION	JAPAN	A		CS & AS T-11, T-22, T-23, T-91, T-92
		$			TUBOS REUNIDOS INDUSTRIAL, S.L.U	SPAIN	A		CS & AS T-11, T-22, T-23, T-91, T-92
		$			JINDAL SAW LIMITED	NASHIK	A		CS & AS T-11, T-12, T-22 HOT FINISHED OD: 33.4 MM TO 168.3 MM WT: 3.5 MM TO 21.95 MM COLD FINISHED OD: 6.0 MM TO 140.0 MM WT: 0.8 MM TO 15.0 MM

		Project/ परियोजना :				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL क्वालिटी प्लान तथा सब –वेंडर के अनुमोदन सहित मदों की सूची			DOC. NO./ दस्तावेज सं.:
		Package/ पैकेज: EPC Package							**REVISION NO : 4**
		Supplier/ आपूर्तिकर्ता:							DATE/ तिथि : 31.03.2024
		Contract No./ अनुबंध सं.:							SUB-SYSTEM उप-प्रणाली: QA-SG(MECH)
S. N. क्र.सं.	Item / मद	**QP/ Insp.** Cat. क्यूपी/ निरी. श्रेणी.	QP No. / क्यूपी. सं.	**QP Sub. Schedule** क्यूपी उप.अनुसूचि	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	**Place/ स्थान**	**Sub-suppliers approval status /** category उप आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी	**Sub-supplier Details submission** schedule/ उप आपूर्तिकर्ता के विवरण प्रस्तुतीकरण की सूची	Remarks/ टिप्पणी
9	**SEAMLESS TUBES**	**$**			REMI METALS GUJARAT LTD	BHARUCH	A		CS & AS T-11, T-12, T-22 HOT FINISHED OD: 28.6 MM TO 177.8 MM WT: 3.0 MM TO 28.0 MM COLD FINISHED OD: 9.0 MM TO 127.0 MM WT: 1.6 MM TO 20.0 MM
		$			WAYMAN GORDAN	USA	A		CS,T11,T12,T22,T91
		$			BENTELER STEEL/TUBE GMBH	GERMANY	A		CS,T-11, T23, T-22, T-91 & T-92
		$			HEAVY METALS & TUBES LTD	AHMEDABAD	A		CS HOT FINISHED UP TO OD: 76.2 MM AND WT:12.0 MM
		$			PRODUCTOS TUBULARES,	SPAIN	A		CS & AS T-11, T-22. T-23. T-91
		$			ISMT	AHMEDNAGAR,BARAMATI	A		CS, T11, 12, 22 HOT FINISHED OD: 38.0 MM TO 273.0 MM WT: 3.5 MM TO 40.0 MM COLD FINISHED OD: 18.0 MM TO 140.0 MM WT: 1.5 MM TO 15.0 MM
		$			NIPPON STEEL & SUMITOMO METAL CORPORATION	JAPAN	A		CS, T-11, T-22, T23, T-91, & T-92
		$			BENTELER STEEL/TUBE GMBH	GERMANY	A		CS, T-11, T23, T-22, T-91 & T-92
		$			BHEL SSTP	TRICHY	A		CS, T-11, T-12, T-22 & T91 (OD 21.30 TO 133 MM & WALL THICKNESS 2MM TO 14MM (HOT FINISHED / COLD DRAWN SIZE)
		I			M/s Heavy Metals & Tubes	MEHSANA GUJARAT	A		CS & AS up to T91 (1. SA 213 T91 CDS: OD 19.05-76.2mm & WT 1.65-16.15mm 2. SA 213 T91 HFS: OD 26.7-76.2mm & WT 3.05-12mm 3. SA 335 P91 CDS & HFS: OD 76.2-127mm & WT 3.5-21mm)
10	**SEAMLESS TUBES(RIFFLED)**	**$**			SALZGITTER MANNESAMANN PRECISION	FRANCE	A		CS
11	**SEAMLESS TUBES(SS)**	**$**			KOBE SPECIALITY STEEL CO LTD	JAPAN	A		SS304, SS347H
		$			SMST	ITALY	A		SS304, 347H, SUPER 304
		$			TUBACEX	SPAIN	A		SS304, 347H, SUPER 304
		$			PASCO SPL STEEL CO.	SOUTH KOREA	A		SS304, 347H, SUPER 304
		$			NIPPON STEEL & SUMITOMO METAL CORPORATION	JAPAN	A		SS 304, SS347H, SUPER 304 OD UP TO 114.3 MM
		I			M/s TUBACEX	VALSAD	A		347H, SUPER 304H (OD 33.4 to 76.2 mm & WT 3.5 to 14.1mm. 347H : OD 26.7 to 31.8mm & WT 7.2 to7.8mm)
		I			M/S CHANDAN STEEL LTD	VALSAD	A		347H, SUPER 304H (OD 33.4 to 76.2 mm & WT 3.5 to 14.1mm. 347H : OD 26.7 to 31.8mm & WT 7.2

		Project/ परियोजना :				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL क्वालिटी प्लान तथा सब –वेंडर के अनुमोदन सहित मदों की सूची			DOC. NO./ दस्तावेज सं.:
		Package/ पैकेज: EPC Package							**REVISION NO : 4**
		Supplier/ आपूर्तिकर्ता:							DATE/ तिथि : 31.03.2024
		Contract No./ अनुबंध सं.:							SUB-SYSTEM उप-प्रणाली: QA-SG(MECH)
S. N. क्र.सं.	Item / मद	**QP/ Insp.** Cat. क्यूपी/ निरी. श्रेणी.	QP No. / क्यूपी. सं.	**QP Sub. Schedule** क्यूपी उप.अनुसूचि	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	**Place/ स्थान**	**Sub-suppliers approval status /** category उप आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी	**Sub-supplier Details submission** schedule/ उप आपूर्तिकर्ता के विवरण प्रस्तुतीकरण की सूची	Remarks/ टिप्पणी
		I			M/S RATNAMANI METALS AND TUBES LT	MEHSANA	A		SUPER 304H (OD 33.4 to 76.2 mm & WT 3.5 to 14.1mm) , SS 347H (OD 26.7 to 31.8mm & WT 7.2 to 7.8mm
		I			M/s Welspun	Bharuch	A		347H, SUPER 304H (OD 33.4 to 76.2 mm & WT 3.5 to 14.1mm. 347H : OD 26.7 to 31.8mm & WT 7.2 to7.8mm)
12	**SEAMLESS PIPES**	**$**			TENNARIS GLOBAL SERVICES SA, URUGUAY	DALMINE, ITALY	A		CS & AS P-11, P-22, P-91
		$			TENNARIS GLOBAL SERVICES SA, URUGUAY	SILCO, ROMANIA	A		CS & AS T-11, T-22, T-91 UPTO DIA 159 MM
		$			TENNARIS GLOBAL SERVICES SA,URUGUAY	NKK TUBES, JAPAN	A		CS & AS T-11, T-22, T-91
		$			VALLOUREC & MANNESMANN TUBES	FRANCE, GERMANY	A		CS & AS P-11, P-22, P-91. P-92
		$			TUBOS REUNIDOS INDUSTRIAL, S.L.U	SPAIN	A		CS & AS P-11, P-22, P-91
		$			ISMT	AHMEDNAGAR, BARAMATI	A		CS, T11, 12, 22 HOT FINISHED OD: 38.0 MM TO 273.0 MM WT: 3.5 MM TO 40.0 MM COLD FINISHED OD: 18.0 MM TO 140.0 MM WT: 1.5 MM TO 15.0 MM
		$			REMI METALS GUJARAT LTD	BHARUCH	A		CS & AS T-11, T-12, T-22 HOT FINISHED OD: 28.6 MM TO 177.8 MM WT: 3.0 MM TO 28.0 MM COLD FINISHED OD: 9.0 MM TO 127.0 MM WT: 1.6 MM TO 20.0 MM
		$			VALCONVY TRUB CHOMUTOV,	CZECH REPUBLIC	A		CS & P-12 & P-22
		$			ARCELORMITTAL TUBULAR PRODUCTS ROMAN S.A	ROMANIA	A		CS
		$			WAYMAN GORDAN	USA	A		CS & AS P-11, P-22, P-91
		$			MAHARASHTRA SEAMLESS LTD	RAIGAD	A		CS HOT FINISHED OD:219.1 MM TO 355.6 MM WT: 6.35 MM TO 35.1 MM COLD FINISHED OD:19.0 MM TO 88.9 MM WT: 1.0 MM TO 12.0 MM
		$			PRODUCTOS TUBULARES,	SPAIN	A		CS & AS P-11, P-12, P-22, P-91
		$			NIPPON STEEL & SUMITOMO METAL CORPORATION	JAPAN	A		CS & AS P-11, P-22, P-91 & P-92
		$			TENNARIS GLOBAL SA, URUGUAY	NKK TUBES, ITALY	A		P-91, P-22, P-11, P12, CS

		Project/ परियोजना :				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL क्वालिटी प्लान तथा सब –वेंडर के अनुमोदन सहित मदों की सूची			DOC. NO./ दस्तावेज सं.:
		Package/ पैकेज: EPC Package							**REVISION NO : 4**
		Supplier/ आपूर्तिकर्ता:							DATE/ तिथि : 31.03.2024
		Contract No./ अनुबंध सं.:							SUB-SYSTEM उप-प्रणाली: QA-SG(MECH)
S. N. क्र.सं.	Item / मद	**QP/ Insp.** Cat. क्यूपी/ निरी. श्रेणी.	QP No. / क्यूपी. सं.	**QP Sub. Schedule** क्यूपी उप.अनुसूचि	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	**Place/ स्थान**	**Sub-suppliers approval status /** category उप आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी	**Sub-supplier Details submission** schedule/ उप आपूर्तिकर्ता के विवरण प्रस्तुतीकरण की सूची	Remarks/ टिप्पणी
		$			JINDAL SAW LIMITED	NASHIK	A		CS, T11, 12, 22 HOT FINISHED OD: 33.4 MM TO 168.3 MM WT: 3.5 MM TO 21.95 MM COLD FINISHED OD: 6.0 MM TO 140.0 MM WT: 0.8 MM TO 15.0 MM
		$			IBF S.P.A	ITALY	A		P-92, P-91, P-22, P-11, P12, CS
		$			JFE STEEL CORPORATION	JAPAN	A		P-92, P-91, P-22, P-11, P12, CS
		$			BHEL SSTP	TRICHY	A		CS
		$			BENTELER STEEL/TUBE GMBH	GERMANY	A		P-11, P-22, P-91, P-92 UP TO OD 160 MM
		$			RINGMILL SPA	ITALY	A		CS OD UP TO 914 MM & WT UP TO 102 MM & AS P-91
		$			FORGIATURA MORANDINI SRL	ITALY	A		CS & AS P-11, P-22, P-91 & P-92
13	**PLATES AND ROLLED SECTION (CS & AS EXCLUDING CS- IS:2062 GRADES)**	$			INDUS STEEL	BELGIUM	A		CS-SA515 AS UP T0 GR-91
		$			ILSENBURGER GROBBLECH	GERMANY	A		CS-SA 299, SA515, BS EN 10025, AS UP TO GRADE 91
		$			DILLINGER-GTSVENTES	GERMANY	A		CS-SA 299, SA515, BS EN 10025, A36, AS UP TO GRADE 91
		$			SIJ ACRONI D.O.O., SLOVENIA	SLOVENIA	A		CS- SA515, BS EN 10025, A36, AS UP TO GRADE 91
		$			THYSSENKRUPP	GERMANY	A		CS- SA515 BS EN 10025 A36, AS UP TO GRADE 22
		$			INDUSSTEEL LOIRE	FRANCE	A		CS-SA 299, SA515; AS UP TO GRADE 22
		$			ARCELLOR MITAL NIPPON STEEL (Formerly ESSAR Steel)	HAZIRA	A		CS- SA515, BS EN 10025, A36, AS GRADE 12 &22
		$			VOESTALPINE GROBBLECH GMBH	AUSTRIA	A		CS- SA515 BS EN 10025 A36, AS UP TO GRADE 22
		$			SAIL	BHILAI/SALEM	A		CS- SA515 BS EN 10025 A36, AS UP TO GRADE 22
		$			NIPPON STEEL	JAPAN	A		CS- SA515 BS EN 10025 A36, AS UP TO GRADE 22
		$			POSCO	SOUTH KOREA	A		CS- SA515 BS EN 10025 A36, AS UP TO GRADE 22
		$			REINER BRACH GMBH & CO.	GERMANY	A		CS- SA 299 SA515 BS EN 10025 A36, AS UP TO GRADE 22
		$			UTTAM VALUE STEEL LTD	WARDHA	A		ALLOY STEEL PLATES AS PER A-204 & A-387 UPTO THICKNESS OF 40MM FOR STRUCTURAL STEEL APPLICATION , IN NON-PRESSURE PARTS.

		Project/ परियोजना :				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL क्वालिटी प्लान तथा सब –वेंडर के अनुमोदन सहित मदों की सूची			DOC. NO./ दस्तावेज सं.:
		Package/ पैकेज: EPC Package							**REVISION NO : 4**
		Supplier/ आपूर्तिकर्ता:							DATE/ तिथि : 31.03.2024
		Contract No./ अनुबंध सं.:							SUB-SYSTEM उप-प्रणाली: QA-SG(MECH)
S. N. क्र.सं.	Item / मद	**QP/ Insp.** Cat. क्यूपी/ निरी. श्रेणी.	QP No. / क्यूपी. सं.	**QP Sub. Schedule** क्यूपी उप.अनुसूचि	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	**Place/ स्थान**	**Sub-suppliers approval status /** category उप आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी	**Sub-supplier Details submission** schedule/ उप आपूर्तिकर्ता के विवरण प्रस्तुतीकरण की सूची	Remarks/ टिप्पणी
14	**PLATES & ROLLED SECTION (CS-IS 2062 STRUCTURAL STEEL GRADES)**	**$**			REFER TO SUB-VENDORS MENTIONED IN THE TECHNICAL SPECIFICATIONS clause 4.0 of QA-Civil chapter (E-59), Section-VI/ Part-B		A		
15	**PLATES(SS)**	**$**			OUTOKUMPU	SWEDEN	A		SS PLATES UP TO 20 MM THK
		$			INDUSSTEEL	BELGIUM	A		GRADE-304,309,310,316
		$			JSL STAINLESS	JAIPUR	A		LINER SS 304
		$			INDUSSTEEL LOIRE	FRANCE	A		GRADE-304,309,310,316
		$			SAIL	BHILAI/SALEM	A		GRADE-304,309,310,317
		$			COLUMBUS STAINLESS STEEL	SOUTH AFRICA	A		GRADE-304,309,310,318
16	**SEPARATOR & STORAGE TANK**	**I**			ALSTOM	USA	A		
		I			BHEL	TRICHY	A		
		I			GE INDIA	DURGAPUR	A		
		I			DOOSAN	SOUTH KOREA	A		
		I			L&T-MHPS BOILERS PVT LTD	HAZIRA	A		
17	**HEADERS AND SUCTION MANIFOLDS**	**I**			ALSTOM	USA	A		
		I			BHEL	TRICHY	A		
		I			GE INDIA	DURGAPUR	A		
		I			DOOSAN	CHENNAI	A		
		I			DOOSAN VINA	VIETNAM	A		
		I			L&T-MHPS BOILERS PVT LTD	HAZIRA	A		
18	**SPIRAL WATER WALLS**	**I**			BHEL	TRICHY	A		
		I			GE INDIA	DURGAPUR	A		
		I			ALSTOM	USA	A		
		I			DOOSAN	CHENNAI	A		
		I			DOOSAN VINA	VIETNAM	A		
		I			DOOSAN	SOUTH KOREA	A		
19	**TUBULAR PRODUCTS(COILS & PANELS) EXCLUDING SPIRAL WALLS**	**I**			GE INDIA	DURGAPUR	A		
		I			BHEL	TRICHY	A		
		I			ALSTOM	USA	A		
		I			DOOSAN	CHENNAI	A		

	EXCLUDING SPIRAL WALLS	**I**			DOOSAN VINA	VIETNAM	A			
		I			DOOSAN	SOUTH KOREA	A			
		I			L&T-MHPS BOILERS PVT LTD	HAZIRA	A			
		I			MHI	JAPAN	A			
20	**CRITICAL PIPING /PCP(MS, CRH, HRH, FW) AND BOILER PIPING**	**I**			BHEL	TRICHY, THIRUMAYAM	A			
		I			GE INDIA	DURGAPUR	A			
		I			DOOSAN	SOUTH KOREA	A			
		I			BHR	GERMANY	A			
		I			DEE DEVELOPMENT	PALWAL	A			
		I			BENTEC	USA	A			
		I			L&T PIPING CENTRE	HAZIRA	A			
		I			SEONGHWA IND CO LTD	SOUTH KOREA	A			
21	**MISC HP PIPING EXCLUDING CRITICAL PIPING(CS, AS UP TO GRADE 91)**	**I**			BHEL	TRICHY	A			
		I			GE INDIA	DURGAPUR	A			
		I			DOOSAN	SOUTH KOREA	A			
		I			BHR	GERMANY	A			
		I			DEE DEVELOPMENT	PALWAL	A			
		I			BENTEC	USA	A			
		I			L&T PIPING CENTRE	HAZIRA	A			
		I			SEONGHWA IND CO LTD	SOUTH KOREA	A			
		I			PAL ENGG	YAMUNANAGAR	A			
22	**MISC HP PIPING EXCLUDING CRITICAL PIPING(CS, AS UP TO GRADE 22)**	**I**					A		ABOVE MENTIONED PIPING VENDORS ARE ALSO ACCEPTABLE	
		I			ISGEC	YAMUNANAGAR	A		UP TO GRADE 22	
		I			UNITECH MACHINES LTD	SAHARANPUR	A		ONLY FOR CS GRADE	
		I			BEND JOINTS PVT LTD	BHOPAL	A		ONLY FOR CS GRADE	
		I			SEAM INDUSTRIES PVT LTD	NAGPUR	A		ONLY FOR CS GRADE	
		I			S&G	PALWAL	A		CS & AS UP TO GRADE 22 (EXCEPT BOILER PIPING & CRITICAL PIPING)	
		I			FLASH FORGE	VISAKHAPATNAM	A		ONLY FOR CS GRADE	
23	**MIXING SPHERES**	**I**			GE INDIA	DURGAPUR	A			
		I			BHEL	TRICHY	A			
		I			ALSTOM	USA	A			
		I			DOOSAN	SOUTH KOREA	A			

		Project/ परियोजना :				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL क्वालिटी प्लान तथा सब –वेंडर के अनुमोदन सहित मदों की सूची			DOC. NO./ दस्तावेज सं.:
		Package/ पैकेज: EPC Package							**REVISION NO : 4**
		Supplier/ आपूर्तिकर्ता:							DATE/ तिथि : 31.03.2024
		Contract No./ अनुबंध सं.:							SUB-SYSTEM उप-प्रणाली: QA-SG(MECH)
S. N. क्र.सं.	Item / मद	**QP/ Insp.** Cat. क्यूपी/ निरी. श्रेणी.	QP No. / क्यूपी. सं.	**QP Sub. Schedule** क्यूपी उप.अनुसूचि	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	**Place/ स्थान**	**Sub-suppliers approval status /** category उप आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी	**Sub-supplier Details submission** schedule/ उप आपूर्तिकर्ता के विवरण प्रस्तुतीकरण की सूची	Remarks/ टिप्पणी
24	**COAL BURNER ASSY & SOFA/OFA PORT/AA PORT**	**I**			ALSTOM	USA	A		
		I			BHEL	TRICHY	A		
		I			DOOSAN	SOUTH KOREA	A		
		I			L&T-MHPS PVT LTD	HAZIRA	A		
		I			DEE DEE ENGINEERING ENTERPRISES	TRICHY	A		
25	**AIR COOLED OIL GUN ASSEMBLY**	**I**			BHEL	TRICHY	A		
		I			SIGMA POWER	TRICHY	A		
		I			DOOSAN	SOUTH KOREA	A		
26	**HFO/LFO PUMPS**								
		I			ALEKTON	CHENNAI	A		
		I			UT PUMPS	FARIDABAD	A		
		I			ROTO PUMPS LTD.	GREATER NOIDA	A		
		I			ALLWEILER INDIA PVT.LTD.	GERMANY	A		
		I			BOURMANN	GERMANY	A		
		I			TUSHACO PUMPS PVT LTD/ALLWEILER INDIA PVT.LTD.	DAMAN	A		
		I			LEISTRITZ PUMPEN GmbH	GERMANY	A		
		I			KRAL	AUSTRIA	A		
27	**SOOT BLOWERS(LRSB, WALL DESLAGGER, ROTARY BLOWER, TEMP PROBE)**	**I**			BHEL	TRICHY	A		
		I			CLYDE BERGMANN	NOIDA	A		UNDER THE SUPERVISION OF M/S CLYDE BERGMANN, GERMANY
		I			CLYDE BERGEMANN	GERMANY	A		
		I			DIAMOND POWER SPECIALITY LTD	SCOTLAND	A		
		I			DAIEYOUNG MACHINERY	KOREA	A		
28	**ELECTRIC HOIST WITH TROLLEY, UNDERSLUNG CRANE (MAIN BOUGHT OUT ITEMS LIKE HOOK, MOTORS AND CRITICAL C&I ITEMS TO BE FROM NTPC APPROVED SOURCES)**								
		I			CONSOLIDATED HOISTS	SATARA	A		EOT CRANES UPTO 40 MT & HOISTS ABOVE 35 MT
		I			REWA INDUSTRIES	FARIDABAD	A		EOT CRANES UPTO 25 MT
		I			GRIP ENGINEERS	HYDERABAD	A		HOIST UPTO 40 MT
		I			POWER BUILD PVT LTD,	V V NAGAR	A		HOIST UPTO 10 MT
		I			UNIVERSAL HOIST	THANE	A		HOIST UPTO 20 MT
		I			ARMSEL MHE PVT LTD	BANGALORE	A		UP TO 20 MT
		I			ANUPAM INDUSTRIES	VITHAL, UDYOGNAGAR	A		EOT CRANES UPTO 50 MT
		I			TRACTOR TRIFOR	FARIDABAD	A		HOIST UPTO 35 MT
		I			CONSOLIDATED HOISTS	PUNE	A		HOISTS UPTO 20 MT

S. N. क्र.सं.	Item / मद	QP/ Insp. Cat. क्यूपी/ निरी. श्रेणी.	QP No. / क्यूपी. सं.	QP Sub. Schedule क्यूपी उप.अनुसूचि	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	Place/ स्थान	Sub-suppliers approval status / category उप आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी	Sub-supplier Details submission schedule/ उप आपूर्तिकर्ता के विवरण प्रस्तुतीकरण की सूची	Remarks/ टिप्पणी
		I			DYNAMECH CRANES	THANE , MUMBAI	A		UP TO 20 MT
		I			HERCULES HOIST LTD.	MUMBAI	A		HOIST UPTO 30 MT
		I			NAMSUNG MACHINERY	SOUTH KOREA	A		UP TO 25 MT
		I			CENTURY CRANES	PALWAL	A		EOT CRANES UP TO 30 MT
		I			MUKUND	PUNE	A		Size limitation
		I			Mangla Hoist	Greater Noida	A		UPTO 10 MT
29	LP CONDENSATE PUMP	I			ITT GOULD	USA	A		
		I			FLOW SERVE	USA	A		
		I			SULZER	NAVI MUMBAI	A		
		I			CLYDE PUMPS	GHAZIABAD	A		
		I			PUMPSENSE FLUID ENGG. PVT. LTD	HOWRAH	A		
30	SCANNER AIR FAN	I			ANDREW YULE CO. LTD	NADIA	A		
		I			ACCEL	AHMEDABAD	A		
		I			PATEL AIRTEMP (I) LTD	GANDHINAGAR	A		
		I			BHEL	RANIPET	A		
		I			CB DOCTOR(IMM)	AHMEDABAD	A		
		I			AIROCHEM ENGINEERING COMPANY	KOLHAPUR	A		
		I			FLAKEWOOD INDIA	CHENNAI	A		
		I			TLT ENGG. PVT. LTD.,	MEHSANA	A		
31	SEAL AIR FAN	I			CB DOCTOR & CO.	AHMEDABAD	A		
		I			ACCEL	AHMEDABAD	A		
		I			TLT INDIA PVT. LTD.,	MEHSANA	A		
		I			PATEL AIRTEMP (I) LTD.,	GANDHINAGAR	A		
		I			BHEL	RANIPET	A		
		I			ANDREW YULE CO. LTD.,	KALYANI NADIA	A		
		I			FLAKTWOOD	SWEDEN	A		
		I			FLAKEWOOD INDIA	CHENNAI	A		
		I			DRAFT AIR/CHICAGO BLOWERS	AHMEDABAD	A		
		I			REITZ INDIA	CHENNAI	A		
		I			Howden Solyvent (India) Pvt. Ltd	Kanchipuram	A		
		I			NADI AIR TECH P LTD	CHENNAI	A		
32	FURNACE MAINTENANCE PLATFORM(SKY CLIMBER)	I			NY SKYMAN INT. SA	BELGIUM	A		
		I			NV SKCLIMBER EUROPE SA	BELGIUM	A		
		I			DAEO PRECISION IND CO LTD	SOUTH KOREA	A		

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		Package/ पैकेज: EPC Package							**REVISION NO : 4**
		Supplier/ आपूर्तिकर्ता:							DATE/ तिथि : 31.03.2024
		Contract No./ अनुबंध सं.:							SUB-SYSTEM उप-प्रणाली: QA-SG(MECH)
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33	**QUICK ERECT FURNACE SCAFFOLDING**	**II**			BSL	UK	A		
		II			INSTANT UPRIGHT	IRELAND	A		
		II			EASTMAN IMPEX	LUDHIANA	A		CARBON STEEL SCAFFOLDING
		II			BSL	HARIDWAR	A		
		II			ARUFASE	SPAIN	A		
34	**METALLIC EXPANSION JOINT FOR DUCTS**	**I**			FLEXATHERM EXPANLLOW PVT LTD	VADODARA	A		
		I			FLEXICAN BELLOWS & HOSES PVT LTD	VADODARA	A		
		I			KAY ENGINEERING WORKS	TRICHY	A		MANUFACTURE OF STRAIGHT PIECES ONLY (CORNER PIECES FROM NTPC APPROVED SOURCES.)
		I			RAVI STRUCTURALS	TRICHY	A		MANUFACTURE OF STRAIGHT PIECES ONLY (CORNER PIECES FROM NTPC APPROVED SOURCES.)
		I			MARUTI FABRICATORS	TANJORE	A		MANUFACTURE OF STRAIGHT PIECES ONLY (CORNER PIECES FROM NTPC APPROVED SOURCES.)
		I			K B TECHNOLOGIES	TRICHY	A		MANUFACTURE OF STRAIGHT PIECES ONLY (CORNER PIECES FROM NTPC APPROVED SOURCES.)
		I			AURORA SHAPERS	TRICHY	A		MANUFACTURE OF STRAIGHT PIECES ONLY (CORNER PIECES FROM NTPC APPROVED SOURCES.)
		I			FLEXICAN DURGA FAB(P) LTD	TRICHY	A		MANUFACTURE OF STRAIGHT PIECES ONLY (CORNER PIECES FROM NTPC APPROVED SOURCES.)
		I			SRI DURGA STRUCTURALS	TRICHY	A		MANUFACTURE OF STRAIGHT PIECES ONLY (CORNER PIECES FROM NTPC APPROVED SOURCES.)
		I			REGIONAL ENGINEERING ENTERPRISES	TRICHY	A		MANUFACTURE OF STRAIGHT PIECES ONLY (CORNER PIECES FROM NTPC APPROVED SOURCES.)
		I			SRI RANGA INDUSTRIES	TANJORE	A		MANUFACTURE OF STRAIGHT PIECES ONLY (CORNER PIECES FROM NTPC APPROVED SOURCES.)
		I			ANNAI VAILANKANNI ENGINEERING INDUSTRIES	TANJORE	A		MANUFACTURE OF STRAIGHT PIECES ONLY (CORNER PIECES FROM NTPC APPROVED SOURCES.)
		I			ANNAI VAILANKANNI FABRICATORS UNIT-II	TANJORE	A		MANUFACTURE OF STRAIGHT PIECES ONLY (CORNER PIECES FROM NTPC APPROVED SOURCES.)
		I			ANNAI VAILANKANNI FABRICATORS UNIT-II	TRICHY	A		MANUFACTURE OF STRAIGHT PIECES ONLY (CORNER PIECES FROM NTPC APPROVED SOURCES.)

		Project/ परियोजना :				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL क्वालिटी प्लान तथा सब –वेंडर के अनुमोदन सहित मदों की सूची			DOC. NO./ दस्तावेज सं.:
		Package/ पैकेज: EPC Package							**REVISION NO : 4**
		Supplier/ आपूर्तिकर्ता:							DATE/ तिथि : 31.03.2024
		Contract No./ अनुबंध सं.:							SUB-SYSTEM उप-प्रणाली: QA-SG(MECH)
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		I			MECHWELL INDUSTRIES	NASHIK	A		
35	**METALLIC EXPANSION JOINT FOR PIPES**	**I**			METALLIC BELLOWS	CHENNAI	A		UP TO 2200 NB
		I			LONESTAR	CHENNAI	A		UP TO 2200 NB
		I			FLEXICON BELLOWS & HOSES	VADODARA	A		UP TO 2200 NB
		I			FLEXATHERM EXPANLLOW PVT LTD	VADODARA	A		UPTO 2000 NB
36	**LIGHT BONDED MINERAL WOOL**	**II**			PUNJSTAR INSULATION FIBRE COMPANY	BHILAI	A		
		II			SHREERAM EQUITECH	DURG	A		
		II			GOENKA ROCKWOOL (INDIA) LTD	RAIPUR	A		
		II			LLOYDS INSULATION	BHILAI	A		
		II			THERMOCARE ROCKWOOL PVT LTD	RAJNANDGAON	A		
		II			MINWOOL ROCK FIBRES LTD	RAJNANDGAON	A		
		II			LAPINUS ROCKWOOL LTD	GWALIOR	A		
		II			ROCKWOOL INDIA	MEDAK AP	A		
		II			DHANBAD ROCKWOOL INSULATION PVT LTD	DHANBAD	A		
		II			MINSULATE MFG CO. LTD	JAMSHEDPUR	A		
		II			POLYBOND PROJECTS PVT LTD	DURG	A		
		II			HI-TECH ROCK FIBRE LTD	RAJNANDGAON	A		
		II			ROCKWOOL INDUSTRIES	BHILAI	A		
		II			JAMSHEDPUR MINERAL WOOL	JAMSHEDPUR	A		
		II			ROXUL ROCKWOOL	DAHEJ	A		
		II			LION INSULATION	GUNA MP	A		
		I			BHEL	TRICHY	A		
		I			MID AMERICA	USA	A		
		I			MANNESMANN	GERMANY	A		
		I			ITT	GERMANY	A		
		I			PIPE SUPPORTS	UK / THAILAND	A		
		I			UNISON	SOUTH KOREA	A		
		I			PIPE HANGER SUPPORTS PVT LTD	TANJAVORE	A		
		I			GILLARDINI	ITALY	A		
		I			LISEGA	GERMANY	A		
		I			WOOKWANG	SOUTH KOREA	A		

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		Package/ पैकेज: EPC Package							**REVISION NO : 4**
		Supplier/ आपूर्तिकर्ता:							DATE/ तिथि : 31.03.2024
		Contract No./ अनुबंध सं.:							SUB-SYSTEM उप-प्रणाली: QA-SG(MECH)
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37	**CLH & VLH**	**I**			BERGEN PIPE SUPPORTS INDIA	CHITTOR	A		CLH UP TO C8-32 RANGE(MAXIMUM LOAD 39.70T). IN CASE OF CLH BEYOND THE RANGE OF C7-27(OF SUPPLIER CATALOGUE) THE SAME SHALL BE SOURCED FROM M/S PIPE SUPORTS, UK/THAILAND.
		I			SANWA TAKI	JAPAN	A		
		I			MH	SPAIN	A		
		I			BROWICK	UK	A		
		I			CARPENTER PATTERSON	UK	A		
		I			CARPENTER PATTERSON INDIA PVT LTD	VELLORE	A		MAXIMUM LOAD: 23877 KG AND MAXIMUM DISPLACEMENT: 220 MM AND UNDER THE SUPERVISION OF M/S CARPENTER PATERSON, UK.
		I			AAA SUPPORTS PVT LTD	VADODARA	A		MAXIMUM LOAD: 1.5MT AND MAXIMUM DISPLACEMENT: 250MM
		I			CARPENTER & PATTERSON	RANIPET	A		SUBJECT TO CONDITIONS AND THE INVOLVEMENT OF THEIR PRINCIPALS
		I			VELAN INC.	CANADA	A		SINGLE STAGE DRAIN VALVES (FORGED), SIZE UPTO 50MM NB, CLASS UPTO 2680 FOR POWER CYCLE PIPING APPLICATION.
		I			LEADER VALVES LTD.	JALANDHAR	A		CC NRV UP NB 800, 150# FOR STG PKG.
		I			BHEL	TRICHY	A		
		I			CRESCENT VALVES	MUMBAI	A		UPTO NB 300 CL 600
		I			VELAND VALVE CORP.	USA	A		GATE V/V 2-34" CL 900-4500 CAST STEEL GATE V/V 18-48" CH50-800
		I			VELAN	UK	A		1) GLOBE V/V 1/4"-2" C14500 (2) BONNETLESS GLOBE V/V 1/2-2.5" CI 150-500)
		I			L&T VALVES	COIMBATORE	A		UP TO CLASS 4500 & GRADE 91
		I			L&T VALVES	KANCHIPURAM	A		Conventional Valves including main steam stop valve Material grade up to SA217 C12A & SA182 F92 and class upto 4500 CL
		I			TRILLIUM FLOW	HUBLI	A		UPTO NB 300 & CL-600, FORGED UPTO NB 50 CL 800
		I			FOURESS ENGG. INDIA LTD.,	THANE	A		(1) 10"X600 # GATE/GLOBE/CHECK VALVES (2) 16"X300# GATE/GLOBE/CHECK VALVES (3) 24"X150# GATE/GLOBE/CHECK VALVE (4) 2"X800 # FS GATE/GLOBE/CHECK (LIST) AS PER BS5352 (B) GATE GLOBE/CHECK VALVES FOR 700# TO 1500#

		Project/ परियोजना :				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL क्वालिटी प्लान तथा सब –वेंडर के अनुमोदन सहित मदों की सूची			DOC. NO./ दस्तावेज सं.:
		Package/ पैकेज: EPC Package							**REVISION NO : 4**
		Supplier/ आपूर्तिकर्ता:							DATE/ तिथि : 31.03.2024
		Contract No./ अनुबंध सं.:							SUB-SYSTEM उप-प्रणाली: QA-SG(MECH)
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38	**CONVENTIONAL VALVES (GATE, GLOBE & CHECK)**	**I**			NITTON VALVES INDIA PVT. LTD.,	AURANGABAD	A		(1) GATE VALVE: UPTO36" CLASS 600 WCB/WCC (2) GLUBE VALVE: UPTO 16" CLASS 300 WCB/WCC (3) CHECK VALVE : UPTO 12" CLASS 600 WCB/WCC & WC6
		I			SAMSHIN LTD.,	SOUTH KOREA	A		(1) GATE - 450 NB 3900 SPL CL SA 217 C12A (GR 91) (2) GLOBE (CAST) - 200 NB 3900 SPL, CL FOR SA 217C12 (G 91) (3) GLOBE (FORGED GR 92) - 50 NB 4500 CL GR SA182 F 92 (4) CHECK (CAST) - 200 NB 3500 SPL CL FOR SA 217C12A (GR91) (5) CHECK (FORGED GR 92) - 50 NB 4500 CL GR SA 182 F 92 (5) ANGLE (FORGED80 NB)
		I			TOA VALVE ENGGINERING INC.	JAPAN	A		CONVENTIONAL VALVES (1) GATE VALVES UPTO SIZE 16", CLASS 4500 UPTO C12A/F91 (2) GATE VALVES UPTO SIZE 26" CLASS 2500 UPTO C12A (3) CHECK VALVES UPTO SIZE 14" CLASS 2500 UPTO C12A (4) GLOBE VALVES UPTO SIZE 3" CLASS 4500 UPTO C12A (5) GLOBE VALVES UPTO SIZE 10" CLASS 1500 & 4" CLASS 2500 UPTO F91
		I			FOURESS ENGG. INDIA LTD.	THANE	A		(1) 10"X600 # GATE/GLOBE/CHECK VALVES (2) 16"X300# GATE/GLOBE/CHECK VALVES (3) 24"X150# GATE/GLOBE/CHECK VALVE (4) 2"X800 # FS GATE/GLOBE/CHECK (LIST) AS PER BS5352 (B) GATE GLOBE/CHECK VALVES FOR 700# TO 1500#
		I			BABCOCK VALVES	SPAIN	A		(1)CAST GATE VALVE (CS) VALVE CLASS UPTO 2500SPL & SIZE UPTO 10" (2)CAST GLOBE VALVE (CS) CLASS UPTO 2500SPL & SIZE UPTO 3 INCH (3) FORGED GLOBE VALVE (CS) CLASS UPTO 1500 & SIZE UPTO 1" (4) FORGED GLOBE VALVE (CS) CLASS UPTO TO 800 & SIZE UPTO 1.5"
		I			FORBES MARSHALL PVT LTD	PUNE	A		CONVENTIONAL VALVES :CAST GATE VALVE (CS) CLASS UP TO 2500SPL & SIZE UP TO 10 INCH CAST GLOBE VALVE (CS) CLASS UP TO 2500SPL & SIZE UP TO 3 INCH

		Project/ परियोजना :				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL क्वालिटी प्लान तथा सब –वेंडर के अनुमोदन सहित मदों की सूची			DOC. NO./ दस्तावेज सं.:
		Package/ पैकेज: EPC Package							**REVISION NO : 4**
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		I			BABCOCK WILCOX ESPANOLA	SPAIN	A		CONVENTIONAL VALVES -CAST GATE VALVE (CS) CLASS UP TO 2500SPL & SIZE UP TO 10 INCH CAST GLOBE VALVE (CS) CLASS UP TO 2500SPL & SIZE UP TO 3 INCH
		I			HP VALVES OLDENZAAL B V	NETHERLAND	A		CONVENTIONAL VALVES -CAST GATE VALVE (CS) CLASS UP TO 2500SPL & SIZE UP TO 10 INCH CAST GLOBE VALVE (CS) CLASS UP TO 2500SPL & SIZE UP TO 3 INCH
		I			Aruna Industrial Products Pvt. Ltd.	MADURAI	A		REFER APPROVAL CONDITION
39	**SAFETY VALVES(SPRING TYPE)**	**I**			DRESSER INDUSTRIES	USA	A		
		I			SAMPELL AG	GERMANY	A		
		I			TYCO (PENTAIR VALVES & CONTROLS	USA	A		
		I			FUKUI SEISAKUSHO CO LTD	JAPAN	A		
		I			RIENEKE GMBH	GERMANY			HYDRAULIC TYPE
		I			BOPP & REUTHER	GERMANY	A		HYDRAULIC TYPE
		I			MIEWA CORPORATION	JAPAN	A		(1) SAFETY VALVE SIZE 1/2" TO 6" & 150 TO 4500 CLASS
		I			BHEL	TRICHY	A		
		I			Anderson Greenwood Crosby Sanmar ltd. (earlier PENTAIR SANMAR LTD)	PUDUKOTTAI	A		AUX STEAM SYSTEM: UP TO 6" SIZE AND CLASS UP TO 600
		I			FAINGER LESER VALVES P LTD	AURANGABAD	A		SIZE(INELT/OULET): 200/300 MM APPLICABLE TO MAX DESIGN TEMPERATURE:474 DEG C & PRESSURE:47 KG
40	**ELECTROMATIC RELIEF VALVE (ERV)**	**I**			VALVES TECHNOLOGIES	USA	A		(A) 1.5"X3" CLASS 3100- F91 MATERIAL (B) 2.5"X4", CLASS 1500-F91 MATERIAL
		I			FUKUI SEISAKUSHO CO LTD	JAPAN	A		
		I			SAMPELL AG	GERMANY	A		
		I			DRESSER INDUSTRIES	USA	A		
		I			MIEWA CORPORATION	JAPAN	A		SIZE UPTO 65MM & UPTO 4500 CLASS
41	**PLUG VALVE**	**I**			FLOW SERVE INDIA CONTROLS	KANCHIPURAM	A		SIZE: 25 TO 300 MM, CLASS 150 & 300
		I			3Z CORP.	SOUTH KOREA	A		
		I			HAWA VALVES	MUMBAI	A		UP TO 10" SIZE AND 300 CLASS

		Project/ परियोजना :				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL क्वालिटी प्लान तथा सब –वेंडर के अनुमोदन सहित मदों की सूची			DOC. NO./ दस्तावेज सं.:
		Package/ पैकेज: EPC Package							**REVISION NO : 4**
		Supplier/ आपूर्तिकर्ता:							DATE/ तिथि : 31.03.2024
		Contract No./ अनुबंध सं.:							SUB-SYSTEM उप-प्रणाली: QA-SG(MECH)
S. N. क्र.सं.	Item / मद	**QP/ Insp.** Cat. क्यूपी/ निरी. श्रेणी.	QP No. / क्यूपी. सं.	**QP Sub. Schedule** क्यूपी उप.अनुसूचि	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	**Place/ स्थान**	**Sub-suppliers approval status /** category उप आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी	**Sub-supplier Details submission** schedule/ उप आपूर्तिकर्ता के विवरण प्रस्तुतीकरण की सूची	Remarks/ टिप्पणी
		I			M/S. BHEL	TIRUCHIRAPALLI	A		MAIN & AUX COLUMNS, CEILING GIRDERS, BUILT-UP BEAMS
		I			CAPACITE	WADA, PALGHAR	A		(WELDED & BOLTED TYPE)BOILER PRIMARY STRUCTURES (CEILING GIRDER, MAIN COLUMNS, AUX. COLUMN, BOXES, BUCKSTAY, BRACING, MILL BAY STRUCTURE APH SUPPORT STRUCTURE ETC.)
		I			SALEM AUTOMECH (INDIA) PVT. LTD.,	SALEM	A		BOILER STRUCTURES, I.E. CEILING GIRDER
		I			DIAMOND ENGINEERING (CHENNAI) PVT LTD., CHENNAI	KANCHIPURAM	A		FABRICATION OF BOILER STRUCTURES - AWB UNIT-2 FABRICATION OF BOILER STRUCTURES-CEILINER GIRDER, AWB, COLMNS ETC. - BOILER STURCTURES-FABRICATION, TRIAL ASSEMBLY, BLASTING(AWB, COLUMNS, CEILING GIRDER ETC.)
		I			SALEM AUTOMECH UNIT-I & UNIT-II	SALEM	A		CEILING GIRDERS
		I			QUALITY ENGG.WORKS	TRICHY	A		CEILING GIRDERS
		I			INDOFAB	TRICHY			CEILING GIRDERS
		I			SANTHI ENGG. UNIT-II	PUDUKKUDI	A		CEILING GIRDERS
		I			MASTERFAB UNIT-II	DEVARAYANERI	A		CEILING GIRDERS
		I			ARCEOR MITTAL DHAMM PROCESSING PVT LTD	RANIPET	A		(WELDED & BOLTED TYPE)BOILER PRIMARY STRUCTURES (WITHOUT CEILING GIRDER) I.E.MAIN COLUMNS, AUX. COLUMN, BOXES, BUCKSTAY, BRACINGS, MILL BAY STRUCTURE, APH SUPPORT STRUCTURE ETC.)
		I			JSW SEVERFIELD STRUCTURES LTD	BELLARY	A		(WELDED & BOLTED TYPE) BOILER PRIMARY STRUCTURES (WITH OUT CEILING GIRDER) I.E, MAIN COLUMNS, AUX. COLUMN, BOXES, BUCKSTAY, BRACINGS, MILL BAY STRUCTURE, APH SUPPORT STRUCTURE ETC.)

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		Package/ पैकेज: EPC Package							**REVISION NO : 4**
		Supplier/ आपूर्तिकर्ता:							DATE/ तिथि : 31.03.2024
		Contract No./ अनुबंध सं.:							SUB-SYSTEM उप-प्रणाली: QA-SG(MECH)
S. N. क्र.सं.	Item / मद	**QP/ Insp.** Cat. क्यूपी/ निरी. श्रेणी.	QP No. / क्यूपी. सं.	**QP Sub. Schedule** क्यूपी उप.अनुसूचि	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	**Place/ स्थान**	**Sub-suppliers approval status /** category उप आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी	**Sub-supplier Details submission** schedule/ उप आपूर्तिकर्ता के विवरण प्रस्तुतीकरण की सूची	Remarks/ टिप्पणी
		I			ATMASTCO (P) LTD	DURG	A		(WELDED & BOLTED TYPE) BOILER PRIMARY STRUCTURES (WITHOUT CEILING GIRDER) I.E.MAIN COLUMNS, AUX. COLUMN, BOXES, BUCKSTAY, BRACINGS, MILL BAY STRUCTURE, APH SUPPORT STRUCTURE ETC. DUCTS)
		I			ANG INDUSTRIES	SITARGANJ	A		FABRICATION AND SUPPLY WELDED TYPE BOILER STRUCTURES I.E. MAIN COLUMNS (PLUS AND BOX), AUTO WELDED BEAMS AND BRACINGS.
		I			INDIANA GRATINGS PVT LTD	PURANDAR	A		FACTORY FABRICATED CIVIL STRUCTURE POWER HOUSE (TG BUILDING) STRUCTURAL ITEM (MAX SINGLE PIECE SIZE UPTO 15MT) (WELDED & BOLTED TYPE)
		I			ESSAR HEAVY ENGINEERING SERVICES, (A UNIT OF ESSAR PROJECTS INDIA LTD)	SURAT	A		FABRICATION AND SUPPLY OF BUCKSTAYS
		I			SIMPLEX ENGINEERING & FOUNDRY WORKS PVT LTD	BHILAI	A		(WELDED & BOLTED TYPE) BOILER PRIMARY STRUCTURES (WITH OUT CEILING GIRDER) I.E, MAIN COLUMNS, AUX. COLUMN, BOXES, BUCKSTAY, BRACINGS, MILL BAY STRUCTURE, AP
		I			SIMPLEX ENGG & FOUNDRY WORKS	UNIT 2, BHILAI	A		CEILING GIRDERS
		I			SEAM INDUSTRIES LIMITED	NAGPUR	A		WELDED STRUCTURE UPTO 15T.FABRICATION AND SUPPLY OF BUNKERS & BUNKER STRUCTURES, BUCKSTAYS AND DUCTS.
42		**I**			SHIVAM HITECH STEELS PVT. LTD	BHILAI	A		HORIZONTAL BRACE/CIRCULAR HOLLOW SECTION ,BUCKSTAY,DUCTS
		I			ENESTEE ENGINEERING LTD.,	NAGPUR	A		FABRICATION & SUPPLY OF BUNKERS & BUNKER STRUCTURES ,BUCKSTAY,DUCTS
		I			SSV ENGINEERS PVT. LTD.,	PUNE	A		COAL SILOS, BUCKSTAY, DUCTS
		I			ALLIANCE INTEGRATED METALIKS LTD.,	RAJPURA	A		BOILER PRIMARY STRUCTURES (EXCLUDING CEILING GIRDER)
		I			TECHNOFAB MANUFACTURING LTD.	CHENNAI	A		FABRICATION AND SUPPLY OF BUNKER, BUNKER STRUCTURE, TP'S & CONVEYER GALLERIES,DUCTS
		I			BABY ENGINEERING PVT. LTD.,	THUVAKUDI	A		BOILER PRIMARY STRUCTURES (EXCLUDING CEILING GIRDER) (WELDED & BOLTED TYPE)

		Project/ परियोजना :				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL क्वालिटी प्लान तथा सब –वेंडर के अनुमोदन सहित मदों की सूची			DOC. NO./ दस्तावेज सं.:
		Package/ पैकेज: EPC Package							**REVISION NO : 4**
		Supplier/ आपूर्तिकर्ता:							DATE/ तिथि : 31.03.2024
		Contract No./ अनुबंध सं.:							SUB-SYSTEM उप-प्रणाली: QA-SG(MECH)
S. N. क्र.सं.	Item / मद	**QP/ Insp.** Cat. क्यूपी/ निरी. श्रेणी.	QP No. / क्यूपी. सं.	**QP Sub. Schedule** क्यूपी उप.अनुसूचि	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	**Place/ स्थान**	**Sub-suppliers approval status /** category उप आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी	**Sub-supplier Details submission** schedule/ उप आपूर्तिकर्ता के विवरण प्रस्तुतीकरण की सूची	Remarks/ टिप्पणी
		I			COREFAB PROJECTS PVT LTD.,	BHILAI	A		FABRICATION & SUPPLY OF BOILER PRIMARY STRUCTURES - MAIN & AUX. COLUMNS, BUILT UP BEAM, BUCKSTAYS, BRACINGS, MILL BAY STRUCTURE AND APH SUPPORT STRUCTURE (EXCLUDING CEILING GIRDERS),DUCTS (WELDED & BOLTED TYPE)
		I			MIURA INFRASTRUCTURE PVT. LTD	BHILAI-	A		BOILER PRIMARY STRUCTURE - MAIN & AUX. COLUMNS, BUILT UP BEAMS, BOXES, BUCKSTAY, BRACINGS, MILL BAY STRUCTURE, APH SUPPORT STRUCTURE (EXCLUDING CEILING GIRDERS) UPTO MAXIMUM SINGLE PIECE WEIGHT OF 30 MT (WELDED & BOLTED TYPE)
		I			METALFAB HIGHTECH PVT LTD.	NAGPUR	A		FABRICATION AND SUPPLY OF BUCKSTAYS ,DUCTS,(WELDED & BOLTED TYPE), COAL BUNKER
		I			WHEELS INDIA LTD.	WARDHA	A		MANUFACTURING OF WELDED TYPE STRUCTURES I.E. AUTOWELDED BEAMS BRACING AND COLUMNS (UPTO 15T) ,BUCKSTAY,DUCTS(WELDED & BOLTED TYPE)
		I			NOVOTECH PROJECTS (I) PVT LTD	KOLKATA	A		BUNKER STRUCTURE, TPS & TRESTLES
		I			JINDAL STEEL & POWER LTD. (JSPL)	RAIGARH	A		PRIMARY STRUCTURE & CEILING GIRDER (WELDED & BOLTED TYPE)
		I			AJANTHA FABRICATOR WORKSUNIT-II	PUDUKKOTTAI	A		BOILER PRIMARY STRUCTURES-COLUMNS, BEAMS, BRACINGS AND CEILING GIRDERS (WELDED & BOLTED TYPE)
		I			FEEDERS LIOYDS	SIKANDRABAD	A		PRIMARY STRUCTURE - MAIN COLUMNS, AUX COLUMNS, BUILT UP BEAMS, BOXES, BUCKSTAY (WELDED & BOLTED TYPE)
		I			L&T HEAVY FORGING & SPECIAL STEEL	HAZIRA	A		CEILING GIRDER
		I			VASAN INDUSTRIES	PUDUKKOTTAI	A		BOILER PRIMARY STRUCTURES(WELDED AND BOLTED TYPE)
		I			REGIONAL ENGINEERING WORKS	THUVVAKKUDY	A		BOILER PRIMARY STRUCTURE(WELDED AND BOLTED TYPE)
		I			VRINDA ENGINEERS	PANAGARH, WB	A		COAL BUNKERS

		Project/ परियोजना :				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL क्वालिटी प्लान तथा सब –वेंडर के अनुमोदन सहित मदों की सूची			DOC. NO./ दस्तावेज सं.:
		Package/ पैकेज: EPC Package							**REVISION NO : 4**
		Supplier/ आपूर्तिकर्ता:							DATE/ तिथि : 31.03.2024
		Contract No./ अनुबंध सं.:							SUB-SYSTEM उप-प्रणाली: QA-SG(MECH)
S. N. क्र.सं.	Item / मद	**QP/ Insp.** Cat. क्यूपी/ निरी. श्रेणी.	QP No. / क्यूपी. सं.	**QP Sub. Schedule** क्यूपी उप.अनुसूचि	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	**Place/ स्थान**	**Sub-suppliers approval status /** category उप आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी	**Sub-supplier Details submission** schedule/ उप आपूर्तिकर्ता के विवरण प्रस्तुतीकरण की सूची	Remarks/ टिप्पणी
		I			GREAT INDIA FABRICATORS	YAMUNANAGAR	A		BOILER PRIMARY STRUCTURES EXCLUDING CEILING GIRDER(WELDED AND BOLTED TYPE), LIMITATIONS AS PER APPROVAL CONDITIONS
		I			Goodluck Steel Tubes	Sikenderabad	A		Buckstay
		I			GEW	Sikenderabad	A		Buckstay
		I			JSPL	Angul	A		Boiler Primary Structure (Excluding Ceiling Girder)
		I			L&T Limited ECC Workshop	Kanchheepuram	A		Boiler Primary Structure (Excluding Ceiling Girder)
		I			JSPL	Raipur	A		Primary Structure -Ceiling Girder -Sub to approval condition
		I			Steel Infra Solutions Private Limited(SISCOL)	Bhilai	A		Boiler Primary Structure (Excluding Ceiling Girder) and column directly supporting ceiling girders-Sub to approval condition
43	**ELECTRO FORGED GRATINGS**	**II**			INDIANA GRATINGS PVT. LTD	PUNE	A		
		II			KARDEANAND UDYOG	PUNE	A		
		II			PREMIER POWER PRODUCTS LTD	HOWRAH	A		
		II			BHOLA RAM STEEL PVT. LTD	PATNA	A		
		II			PINAX STEEL INDUSTRIES PVT LTD	PATNA	A		
		II			GREATWELD STEEL GRATING PVT. LTD	PUNE	A		
		II			VIN FAB ENGG. PVT LTD.,	MUMBAI	A		
		II			Ratan Project & Engineering	Howrah	A		
44	**TANKS & VESSELS(IBD, CBD, FLASH TANK ETC)**	**I**			KPHE	SOUTH KOREA	A		
		I			SV TANKS & VESSELS	MUMBAI	A		
		I			PROGEN SYS TECH LTD	CHENNAI	A		UP TO 4 KSC PR
		I			FAB TECH	PUNE	A		
		I			UNITECH MACHINES LTD	SAHARANPUR	A		UP TO 10 KSC PR
		I			SEAM IND P LTD	NAGPUR	A		UP TO 10 KSC PR
		I			SHAKTI HI TECH CONST PVT LTD	CHENNAI	A		UP TO 10 KSC PR
		I			SOUTHERN HEAVY ENGG & FAB PVT LTD	CHENNAI	A		UP TO 10 KSC PR
		I			ALTECH INFRASTRUCTURE(I) PVT LTD	ALWAR	A		UP TO 16 KSC PR
		I			SEAM INDUSTRIES PVT LTD	NAGPUR	A		UP TO 16 KSC PR
45	**SOOT BLOWER PRESSURE REDUCING VALVES & BLOCK**	**I**			REFER QA C&I LIST				

		Project/ परियोजना :				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL क्वालिटी प्लान तथा सब –वेंडर के अनुमोदन सहित मदों की सूची			DOC. NO./ दस्तावेज सं.:
		Package/ पैकेज: EPC Package							**REVISION NO : 4**
		Supplier/ आपूर्तिकर्ता:							DATE/ तिथि : 31.03.2024
		Contract No./ अनुबंध सं.:							SUB-SYSTEM उप-प्रणाली: QA-SG(MECH)
S. N. क्र.सं.	Item / मद	**QP/ Insp.** Cat. क्यूपी/ निरी. श्रेणी.	QP No. / क्यूपी. सं.	**QP Sub. Schedule** क्यूपी उप.अनुसूचि	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	**Place/ स्थान**	**Sub-suppliers approval status /** category उप आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी	**Sub-supplier Details submission** schedule/ उप आपूर्तिकर्ता के विवरण प्रस्तुतीकरण की सूची	Remarks/ टिप्पणी
46	**FITTINGS(GRADE 91/92)**	**I**			PETROL RACCORD SPA	ITALY	A		FORMED AND FORGED FITTINGS 91/92 GRADE
		I			BOKOYOUNG METAL CO.	SOUTH KOREA	A		FORGED FITTINGS AS PER SA-182 F92 GRADE (REDUCERS, NOZZLE, HALF COUPLING ETC.)
		I			TF TECH CO. LTD	SOUTH KOREA	A		FORGED FITTINGS AS PER SA-182 F92 GRADE (REDUCERS, NOZZLE, HALF COUPLING ETC.)
		I			FLASH FORGE	VIZAG	A		P91 FORMED/FORGED UPTO DIA 273MM & THICK 30MM
		I			BGH EDELSTAHL SIEGEN GMBH	GERMANY	A		MANUFACTURE AND SUPPLY OF FORGED FITTINGS OF CS, AS AND SS GRADES
		I			ERNE FITTINGS GMBH	AUSTRIA	A		P-91 FORMED
		I			GAM RACCORDI SPA	ITALY	A		P-91 FORMED
		I			TECHNO FORGE SPA	ITALY	A		P-91 FORMED
		I			MEGA SPA	ITALY	A		92 GRADE FITTINGS (FORGED)
		I			BASSI LLUIGI SPA	ITALY	A		P-91 FORGED/WELDED
		I			IBF SPA	ITALY	A		FORMED AND FORGED FITTINGS/P92 GRADE
		I			ALLIED INT. (TACTUBI RACCORDI SPA, VIA ROMA 150, 29027 PODENZANO)	ITALY	A		P-91 FORMED
		I			BRUCK STRASSE 16 ENSHEIM	GERMANY	A		P-91 FORGED/WELDED
		I			SUNGKWANG BEND CO. LTD.,	SOUTH KOREA	A		FITTINGS OF P91 AND OF MTERIAL OTHER THAN P91 OF BOILER
		I			TK CORPN. FORGITAL	S KOREA	A		FORMED FITTINGS (ELBOW, TEES, REDUCERS ETC.) OF 92 GRADE.
		I			FORGITAL	ITALY	A		MANUFACTURING AND SUPPLY OF GRADE 91 FORTGINGS (HOLLOW FORGINGS/MATCHING PIECES WITH 508MM DIA X 75MM THICKNESS STUBS WITH OD 245MM.
		I			DEE DEVELOPMENT	PALWAL	A		GRADE 91 WITH SIZE/TYPE LIMITATIONS
		I			CHW FORGE	GHAZIABAD	A		GRADE 92 WITH SIZE/TYPE LIMITATIONS
		I			FORGIATURA MORANDINI SRL	ITALY	A		GRADE 92 FORGED FITTINGS(REDUCERS, TEES & Y-PIECES)
		I			BHARAT FORGE, PUNE	PUNE	A		GRADE 92 FORGED FITTINGS(REDUCERS, TEES & Y-PIECES)
		I			BOKYOUNG METAL CO.LTD	SOUTH KOREA	A		GRADE 92 FORGED FITTINGS(REDUCERS, NOZZLE, HALF COUPLING)
		I			VIAR SPA	ITALY	A		SEAMLESS FORGED Y-PIECE UP TO GRADE 91

		Project/ परियोजना :				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL क्वालिटी प्लान तथा सब –वेंडर के अनुमोदन सहित मदों की सूची			DOC. NO./ दस्तावेज सं.:
		Package/ पैकेज: EPC Package							**REVISION NO : 4**
		Supplier/ आपूर्तिकर्ता:							DATE/ तिथि : 31.03.2024
		Contract No./ अनुबंध सं.:							SUB-SYSTEM उप-प्रणाली: QA-SG(MECH)
S. N. क्र.सं.	Item / मद	**QP/ Insp.** Cat. क्यूपी/ निरी. श्रेणी.	QP No. / क्यूपी. सं.	**QP Sub. Schedule** क्यूपी उप.अनुसूचि	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	**Place/ स्थान**	**Sub-suppliers approval status /** category उप आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी	**Sub-supplier Details submission** schedule/ उप आपूर्तिकर्ता के विवरण प्रस्तुतीकरण की सूची	Remarks/ टिप्पणी
		I			DEE DEVELOPMENT	PALWAL	A		GRADE 92 WITH SIZE/TYPE LIMITATIONS
		I			Goodluck Engineering Co.	Dadri	A		Forged Fittings (91/92 grade)
47	**AUX PRDS SYSTEM (INCLUDING CONTROL VALVE)**	**I**			REFER C&I LIST				
48	**CHEMICAL DOSING SYSTEM (SKID ASSY) FOR SG SCOPE INCLUDING AUX BOILER**	**I**			POWER PIPING	TRICHY	A		
		I			V K PUMPS	MUMBAI	A		
		I			MILTON ROY	CHENNAI	A		
		I			TECHNO CONSULTANTS	MUMBAI	A		
		I			POSITIVE METERING SYSTEM	NASIK	A		
		I			PSI ENGG SYSTEM	CHENNAI	A		
		I			Prorites Equipments Pvt. Ltd.	Pune	A		LP Chemical Dosing System (NaOH/Ammonia/Hydrazine)
49	**SG CW BOOSTER PUMP/ ECW PUMP**	**I**			KBL	WADI	A		
		I			WPIL LTD	GHAZIABAD	A		
		I			SAM TURBO	COIMBATORE	A		
		I			KSB	PUNE	A		
		I			BEST & CROMPTON ENGG LTD	CHENNAI	A		
		I			JYOTI LTD	BARODA	A		
		I			FLOWMORE	GHAZIABAD	A		
50	**COAL BUNKER**	**I**			REFER BOILER STRUCTURE LIST		A		REFER BOILER STRUCTURE LIST
51	**LUBE OIL SYSTEM FOR MILLS**	**I**			LINCOLN HELIOS	BANGALORE	A		
		I			T A HYDRAULICS	HYDERABAD	A		
		I			CENLUB INDUSTRIES	FARIDABAD	A		
		I			BHEL	HYDERABAD	A		
		I			BIJUR DELIMON INDIA PVT LTD	PUNE	A		
		I			UNIQUE ENGINEERING ENTERPRISE P LTD	HYDERABAD	A		
		I			SOUTHERN LUB	BANGALORE	A		

		Project/ परियोजना :				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL क्वालिटी प्लान तथा सब –वेंडर के अनुमोदन सहित मदों की सूची			DOC. NO./ दस्तावेज सं.:
		Package/ पैकेज: EPC Package							**REVISION NO : 4**
		Supplier/ आपूर्तिकर्ता:							DATE/ तिथि : 31.03.2024
		Contract No./ अनुबंध सं.:							SUB-SYSTEM उप-प्रणाली: QA-SG(MECH)
S. N. क्र.सं.	Item / मद	**QP/ Insp.** Cat. क्यूपी/ निरी. श्रेणी.	QP No. / क्यूपी. सं.	**QP Sub. Schedule** क्यूपी उप.अनुसूचि	Proposed sub-supplier/ प्रस्तावित उप आपूर्तिकर्ता	**Place/ स्थान**	**Sub-suppliers approval status /** category उप आपूर्तिकर्ता के अनुमोदन की स्थिति /श्रेणी	**Sub-supplier Details submission** schedule/ उप आपूर्तिकर्ता के विवरण प्रस्तुतीकरण की सूची	Remarks/ टिप्पणी
52	**CERAMIC LINED BEND COAL PIPES**	**I**			BHEL EDN	BANGALORE	A		
		I			BMW	HATHRAS/ROURKEE	A		
		I			CARBORANDUM UNIVERSAL	HOSUR	A		
		I			BHEL IP	JAGDISHPUR	A		
53	**KNIFE EDGE GATE VALVES AT MILL OUTLET AND BURNER INLET**	**I**			GALAXY CONTROLS PVT LTD	CHENNAI	A		UP TO SIZE 26'
		I			ORBINOX INDIA PVT LTD	COIMBATORE	A		UP TO SIZE 30"
		I			BRAY CONTROLS	CHENNAI	A		UP TO SIZE 28"
		I			JASH ENGG LTD	INDORE	A		UP TO SIZE 30"
54	**VIS FOR FANS**	**I**			GERB	BANGALORE	A		
55	**LOS FOR FD, PA & ID FANS**	**I**			PSI ENGG	CHENNAI	A		
		I			CENLUB	FARIDABAD	A		
		I			LINCOLN HELIOS	BANGALORE	A		
		I			BHEL	RANIPET	A		
		I			SOUTHERN LUBRICATION	BANGALORE	A		
		I			TA HYDRAULICS	HYDERABAD	A		
56	**GATES AND DAMPERS**	**I**			BACHMANN	FARIDABAD	A		
		I			FOURESS INDIA	BANGALORE	A		
		I			INDIRA DAMPERS	RANIPET	A		
		I			KAMAL ENGG	YAMUNANAGAR	A		
		I			BACHMANN	CHENNAI	A		GUILLOTINE GATE(2700 MM HEIGHT)
		I			DAMPER TECHNOLOGY INDIA PVT LTD	COIMBATORE	A		
		I			Flexatherm Expanllow Pvt.Ltd	Block No-400/B, Karjan, Vadodara	A		Gates & Dampers(Flow Area/Cross-sectional area upto 5600mm X 5600mm)
57	**PA Fans**	**I**			Bharat Heavy Electrical Limited	Ranipet	A		Sub-QR item: Project specific approval required from NTPC Engineering
		I			L&T- Howden Private limited	Hazia	A		
		I			TLT-Turbo GmBH	Germany	A		
		I			Howden	Denmark	A		
		I			Bharat Heavy Electrical Limited	Ranipet	A		

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		Contract No./ अनुबंध सं.:							SUB-SYSTEM उप-प्रणाली: QA-SG(MECH)
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58	**ID Fans**	**I**			TLT Turbo GmBH	Germany	A		Sub-QR item: Project specific approval required from NTPC Engineering
		I			L&T Howden Private Limited	Hazira	A		
		I			Howden	Denmark	A		
59	**FD Fan**	**I**			Bharat Heavy Electrical Limited	Ranipet	A		Sub-QR item: Project specific approval required from NTPC Engineering
		I			L&T Howden Private Limited	Hazira	A		
		I			TLT-Turbo GmBH	Germany	A		
		I			Howden	Denmark	A		
60	**Coal Pulverisers**	**I**			BHEL	Hyderabad	A		Sub-QR item: Project specific approval required from NTPC Engineering
		I			L&T MHPS Boilers Pvt. Ltd.(LMB) (Incl. Manufacturing Facility of L&T)	Hazira	A		
		I			Loesche Energy system India pvt ltd.	Chennai	A		
		I			Doosan Heavy Industries & Construction Co. Ltd	South Korea	A		
61	**Raw Coal Feeders**	**I**			Bharat Heavy Electricals Limited	Trichy	A		Sub-QR item: Project specific approval required from NTPC Engineering
		I			Schenck Process (Stock Redler India Private Limited, India)	Bengaluru	A		
		I			Merrick Industries Pvt. Ltd., India	Bengaluru	A		
		I			Yamato Scale	Japan	A		
		I			FLSmidth	Haryana	A		
62	**Boiler Start Up Drain Re-Circulation Pump**	**I**			Torishima Pump Mfg Co. Ltd.,	Japan	A		Sub-QR item: Project specific approval required from NTPC Engineering
		I			Hayward Tyler Limited	UK	A		
		I			KSB AG	Germany	A		
63	**Air Pre-Heaters**	**I**			Bharat Heavy Electricals Limited	Ranipet	A		Sub-QR item: Project specific approval required from NTPC Engineering
		I			L&T Howden Private Limited	Hazira	A		
		I			Arvos India Pvt.LTd.	Chennai	A		
64	**Auxiliary Boiler**	**I**			ISGEC John Thampson (IJT)	Yamuna Nagar	A		Sub-QR item: Project specific approval required from NTPC Engineering
		I			Thermax Babcock & Wilcox Ltd.	Pune	A		

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		Supplier/ आपूर्तिकर्ता:							DATE/ तिथि : 31.03.2024
		Contract No./ अनुबंध सं.:							SUB-SYSTEM उप-प्रणाली: QA-SG(MECH)
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		I			Bharat Heavy Electricals Limited & BHEL (HVPB)	Trichy, Vizag	A		
65	**ESP**	**I**			Bharat Heavy Electricals Limited	Ranipet	A		Sub-QR item: Project specific approval required from NTPC Engineering
		I			Larsen & Toubro Limited	India	A		
		I			GE Power India	India	A		
	Main Contractor approved sources for Boiler & ESP package								
1	**ALUMUNIUM CLADDING**	**III**			Main Contractor approved sources				
2	**NON IBR PIPING / LP PIPING - PRESSURE UP TO 10 KSC**	**III**			Main Contractor approved sources				
3	**CASTABLE REFRACTORY**	**III**			Main Contractor approved sources				
4	**POURABLE INSULATION**	**III**			Main Contractor approved sources				
5	**STEEL STRUCTURE FOR DUCTS, FURNACE ENCLOSURE, GUIDE, STAIRS & LADDERS, HANDRAILS, PLATFORMS**	**III**			Main Contractor approved sources				
6	**SILENCERS**	**III**			Main Contractor approved sources				
7	**COAL PIPES & BENDS (WITHOUT CERAMIC LINERS)**	**III**			Main Contractor approved sources				
8	**FITTINGS(CS, SS & AS UP TO GRADE 22)**	**III**			Main Contractor approved sources				
9	**ELECTRIC HOIST WITH TROLLEY, UNDERSLUNG CRANE < 05 TON CAPACITY**	**III**			Main Contractor approved sources				
10	**DUCTS**	**III**			Main Contractor approved sources				
11	**AIR RECEIVER TANK**	**III**			Main Contractor approved sources				

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		Contract No./ अनुबंध सं.:							SUB-SYSTEM उप-प्रणाली: QA-SG(MECH)
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12	**COUPLING FOR FANS**	**III**			Main Contractor approved sources				
13	**SCAPH**	**III**			Main Contractor approved sources				
14	**HP/LP/OXYGEN DOSING SYSTEM**	**III**			Main Contractor approved sources				
15	**CE & DE SUSPENSION ASSEMBLY WITH RAPPING(MECHANICAL) MECHANISM**	**III**			Main Contractor approved sources				
16	**PERFORATED GD PLATE/SCREEN**	**III**			Main Contractor approved sources				
17	**ESP SUPPORT STRUCTURE (COLUMNS & ROOF BEAMS MANUFACTURED FROM ROLLED SECTIONS), CASING**	**III**			Main Contractor approved sources				
18	**ESP- MECH SAFETY INTERLOCK**	**III**			Main Contractor approved sources				
19	**STEEL STRUCTURE FOR DUCTS, FURNACE ENCLOSURE, GUIDE, STAIRS & LADDERS, HANDRAILS, PLATFORMS**	**III**			Main Contractor approved sources				
20	**HANGER & SUPPORTS(OTHER THAN CLH & VLH) RIGID HANGERS**	**III**			Main Contractor approved sources				
21	**SNUBBERS**	**III**			Main Contractor approved sources				
22	**Oil Preheater**	**III**			Main Contractor approved sources				
FGD Package									
1	**Booster Fan**	**I**			**REFER SUB QR ITEM LIST Refer Note 1**				
2	**Slurry Recirculation Pump**	**I**			**REFER SUB QR ITEM LIST Refer Note 1**				
3	**Oxidation Air Blower**	**I**			**REFER SUB QR ITEM LIST Refer Note 1**				

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		Contract No./ अनुबंध सं.:							SUB-SYSTEM उप-प्रणाली: QA-SG(MECH)
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4	**Wet Limestone Grinding Mills**	**I**			**REFER SUB QR ITEM LIST Refer Note 1**				
5	**Slurry Pumps**	**I**			**REFER SUB QR ITEM LIST Refer Note 1**				
6	**Agitators (Vertical and Horizontal)**	**I**			**REFER SUB QR ITEM LIST Refer Note 1**				
7	**Vacuum Belt Filter**	**I**			**REFER SUB QR ITEM LIST Refer Note 1**				
8	**Dampers & Gates**	**I**			REFER TO BOILER PACAKAGE LIST				
9	**Knife Edge Gate Valve**	**I**			REFER TO BOILER/MILL PACAKAGE LIST				
10	**Electric Hoist > 10MT**	**I**			REFER TO BOILER PACAKAGE LIST				
11	**Hangers & Supports**	**II**			REFER TO BOILER PACAKAGE LIST				
12	**C276 and Titanium Claded plates/sheets**	**II**			NTPC APPROVED SOURCES				
13	**Titanium & C276 Plates/Sheets (Raw material)**	**II**			Main Contractor approved sources				
14	**Hydrocyclones**	**II**			NTPC APPROVED SOURCES				
15	**Insulation / Cladding, Mineral Wool / Piping Insulation**	**II**			REFER TO BOILER PACAKAGE LIST				
16	**Carbon steel Plates**	**$**			REFER TO SUB-VENDORS MENTIONED IN THE TECHNICAL SPECIFICATIONS SEC-VI, PART-B				
17	**FGD Structure (Column / Beams) (Other than BOP area)**	**II**			Main Contractor approved sources				
18	**Spray Nozzle (Absorber)**	**II**			Main Contractor approved sources				
19	**Borosilicate Lining (Raw Material)**	**II**			Main Contractor approved sources				
20	**Epoxy Primer and Adhesive for Borosilicate Lining**	**II**			Main Contractor approved sources				
21	**M.S. Rubber Lined Piping**	**II**			Main Contractor approved sources				
22	**Mist. Eliminator (PP/PVC) Including Supports**	**II**			Main Contractor approved sources				

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23	**Spray Header / Poly propylene Plate / FRP Piping & Fittings**	**II**			Main Contractor approved sources				
24	**Absorber Tank including Nozzle and Turrets**	**II**			Main Contractor approved sources				
25	**Seal Air Fan for Damper**	**III**			Main Contractor approved sources				
26	**Absorber Accessories and Shop Fabricated Items, if any**	**III**			Main Contractor approved sources				
27	**Tanks other then Absorber Tank**	**III**			Main Contractor approved sources				
28	**Ducts, Support Structure, Platform, Stairs, Fasteners, Wet Dry Interface etc.**	**III**			Main Contractor approved sources				
29	**Casing / Hopper / Chute / Silo (Other than BOP)**	**III**			Main Contractor approved sources				
30	**PEB / Pre-Fabricated-Structure for Shed / Super Structure (Trestle / Gallery) / Structure for Transfer Tower / Crusher House / Silo / Belt etc. / Technological Structure / Secondary Support Structure / Platform Structure etc)**	**III**			Main Contractor approved sources				
31	**Manual Hoist**	**III**			Main Contractor approved sources				
32	**Application of Rubber Lining of Tanks/ Pipes**	**III**			Main Contractor approved sources				
33	**Pipes (IS: 1239 / IS: 3589) & MS Fitting (Other than BOP)**	**III**			Main Contractor approved sources				
34	**Strainer**	**III**			Main Contractor approved sources				
35	**Spray Nozzle (Atomizing / Emergency Quenching)**	**III**			Main Contractor approved sources				
36	**Metallic/Non-Metallic Expansion Joints**	**III**			Main Contractor approved sources				
37	**Expansion Joints for Piping**	**III**			Main Contractor approved sources				
38	**Rubber / Glass Flake Lining Material**	**III**			Main Contractor approved sources				
39	**Electric Hoist Upto 10T**	**III**			Main Contractor approved sources				
40	**Lagging / Al Cladding (Other than BOP)**	**III**			Main Contractor approved sources				
41	**HDPE Piping & Fitting**	**III**			Main Contractor approved sources				
42	**Handrail / Monorail**	**III**			Main Contractor approved sources				

NOTE -1 : For final Sub-QR approval , document required to be submitted as per Sub-QR requirements given in the specification (to be taken up with NTPC Engineering).

NOTE-2: Vendors under 'A' are approved and accepted by NTPC with/without conditions in the past. Similar conditions as the case may be for the vendor shall be applicable for this project and tied up in the quality plan.

NOTE-3: Predespatch inspection for Alloy/SS Grades needs to be tied up by Main contractor or Third-party inspection agency as required.

NOTE-4 : ($) Review of Mill TC for Raw Material to be done by NTPC and shall be included in the QP of corresponding equipment.

NOTE-5: Raw Material for 91 and above Grade Material Fittings to be from NTPC approved sources as per Raw Material vendor List.

NOTE-6:For Motorized/Pneumatic actuated valves the suppliers for actuators shall be from NTPC approved list, Refer NTPC C&I list.

LEGENDS/ संकेतिका

SYSTEM SUPPLIER/SUB-SUPPLIER APPROVAL STATUS CATEGORY /प्रणाली आपूर्तिकर्ता / सब –वेंडर की स्वीकृति की स्थिति की श्रेणी (SHALL BE FILLED BY NTPC एनटीपीसी द्वारा भरा जाएगा)

A – For these items proposed vendor is acceptable to NTPC. To be indicated with letter "A" in the list along with the condition of approval, if any./ इन मदों के लिए प्रस्तावित वेंडर एनटीपीसी को स्वीकार्य हैं। अनुमोदन की शर्त, , यदि कोई हो, के साथ-साथ पत्र "क" में इंगित किया जाए

		Project/ परियोजना :				LIST OF ITEMS REQUIRING QUALITY PLAN AND SUB-SUPPLIER APPROVAL क्वालिटी प्लान तथा सब –वेंडर के अनुमोदन सहित मदों की सूची			DOC. NO./ दस्तावेज सं.:
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DR – For these items "Detailed required" for NTPC review. To be identified with letter "DR" in the list. एनटीपीसी द्वारा इन मदों की समीक्षा के लिए "विस्तृत ब्यौरे की आवश्यकता" होगी। सूची में "DR" पत्र में इंगित किया जाना चाहिए।									
QP/INSPN CATEGORY: क्यूपी / निरीक्षण की श्रेणी:									
CAT-I / श्रेणी- I: For these items the Quality Plans are approved by NTPC and the final acceptance will be on physical inspection witness by NTPC. इन मदों के लिए गुणवत्ता योजनाओं को एनटीपीसी द्वारा अनुमोदित किया जाता है और एनटीपीसी द्वारा अंतिम स्वीकृति भौतिक निरीक्षण के दौरान उपलब्ध गवाह के आधार पर दी जाएगी।									
CAT-II / श्रेणी- II: For these items the Quality Plans approved by NTPC. However no physical inspection shall be done by NTPC. The final acceptance by NTPC shall be on the basis review of documents as per approved QP. इन मदों के लिए गुणवत्ता योजनाओं को एनटीपीसी द्वारा									
CAT-III/ श्रेणी-III : For these items Quality control to be exercised as per Main contractor Quality Assurance System. The final acceptance by NTPC shall be on the basis of Certificate of Conformance (COC) by Main Contractor.									
UNITS/WORKS इकाईयां / कार्य: Place of manufacturing/ निर्माण का स्थान Place of Main Supplier of multi units/works/बहु- इकाइयों / कार्यों के मुख्य सप्लाइर का स्थान.									